## **AMENDMENTS TO THE CLAIMS:**

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This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (PREVIOUSLY PRESENTED) A system for accessing remote devices on a communications network, comprising:
  - a first network configured to enable a user computing device to access remote network elements;
  - a firewall in communication with said first network and configured to restrict access to said first network and the user computing device;
  - a router in communication with said firewall and a remote network element, an in-band access path defined by a communication path between the user computing device and the remote network element via said first network, firewall, and router;
  - a first server in communication with said firewall;
  - a modem bank in communication with said first server and further in communication with the remote network elements via a public switched telephone network (PSTN), an out-of-band access path defined by a communication path between the user computing device and the remote network element via said first network, firewall, first server, modem bank, and PSTN;

said first server configured to:

- (1) receive a request to communicate with the one or more remote network elements over the out-of-band access path;
- (2) authenticate a user;
- (3) facilitate a session with a second server for establishing connection with an external network element;
- (4) establish secure pathway over the out-of-band access path between the user computing device and the one or more remote network elements; and
- (5) transmit data for communicating operational status of the one or more remote network elements between the one or more network elements and the user computing device over the secure pathway; and
- said modem bank including a plurality of modems in communication with said first and second servers and operable to authenticate the request to access the one or more

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remote network elements and to communicate the operational status of the one or more remote network elements.

- 2. (ORIGINAL) The communications system of claim 1, wherein said second server is further operable to select a specific modem.
- 3. (ORIGINAL) The communications system of claim 1, wherein said first server is further operable to log invalid modem-login attempts.
- 4. (ORIGINAL) The communications system of claim 1, wherein said first server is further operable to allow specific access to privileged users for accessing network elements.
- 5. (CANCELLED)
- 6. (CURRENTLY AMENDED) A method for securely retrieving a status of one or more remote devices, the method comprising:
  - communicating between a user computing device and a network element via an in-band access path, the in-band access path including a firewall and router;
  - communicating between the user computing device and the network element via an out-of-band access path, the out-of-band access path including the firewall, a first server, a modem bank, and a public switched telephone network;
  - one of a plurality of modems located in the modem bank configured to communicate with a remote modem in communication with the network element;
  - communicating, from the network device element via the out-of-band access path with the one of a plurality of modems, with the remote modem;
  - authenticating, by the first server, a request to access the remote modem;
  - establishing, by the first server, a secure pathway over the out-of-band access path between the user computing device and network element; and

transmitting data for communicating operational status of the network element between the network element and the user computing device over the secure pathway.

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## 7. (CANCELED)

- 8. (PREVIOUSLY PRESENTED) The method of claim 6, wherein authenticating a request includes validating a number dialed to determine if a request from said number is authorized to connect with said remote modem.
- 9. (PREVIOUSLY PRESENTED) The method of claim 8, wherein authenticating a request further includes processing security credentials to obtain access to the network element.
- 10. (PREVIOUSLY PRESENTED) The method of claim 6, wherein authenticating a request further includes one or more selections from the following:

providing a trusted communications pathway between a source element and a destination element using selective call acceptance (SCA); encrypting communicated data to secure network communications; authenticating said source and destination elements; and utilizing automatic number identification (ANI) to authenticate a calling request.

11. (PREVIOUSLY PRESENTED) One or more computer-readable storage media having computer-useable instructions embodied thereon, the instructions, when executed on a computing device, cause the computing device to:

receive a first request via an out-of-band process to establish a communications pathway with a network device;

receive a security identifier to authenticate said first request;

identify a dial-up number for accessing a remote modem;

capture information associated with said first request to a log file;

direct a server to identify one of a plurality of modems located in a modem bank that can provide feedback related to said network device;

authenticate a second request, said request being a request to access said remote modem;

authenticate a third request, said third request being a request to access said network element; and

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transmit data for communicating operational status of the network element between the network element and a user computing device over a secure pathway established between the user computing device and the network element.

- 12. (ORIGINAL) The media of claim 11, wherein receiving a first request further comprises establishing a communications pathway by exchanging packets of information using one or more network protocols.
- 13. (ORIGINAL) The media of claim 12, wherein receiving a first request further comprises issuing a command to the network device to authenticate access to the network device.
- 14. (ORIGINAL) The media of claim 11, wherein receiving a security identifier includes receiving one or more security-credential components.
- 15. (PREVIOUSLY PRESENTED) The media of claim 11, wherein identifying a dial-up number includes:

issuing a request from a user;
receiving a telephone number for dialing; and
validating said telephone number against a predetermined dialing list.

- 16. (ORIGINAL) The media of claim 11, wherein capturing information includes capturing session information.
- 17. (ORIGINAL) The media of claim 16, wherein said session information includes data related to one or more of the following events:

failed attempts to access a network resource; successful attempts to access one or more elements designated as sensitive or critical components; logon successes and failures; account creation or deletion; account maintenance activity; dial-up activity; periods of system non-availability; and security-administration activities.

18. (ORIGINAL) The media of claim 16, wherein information captured includes one or more of the following:

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- a user identifier;
- a time stamp;
- a date stamp
- a logon attempt;
- a logoff attempt;
- a network address;
- a client identifier;
- a user's location;
- a dialed access number; and
- a reason for logging an event.
- 19. (ORIGINAL) The media of claim 11, wherein directing a server to select a modem includes: sending a request to establish a communications link with a remote modem; selecting a modem from a modem pool; receiving a response from said server to establish a link with said pooled modem; and dialing a telephone number to said pooled modem to establishing a link with said remote modem.
- 20. (ORIGINAL) The media of claim 11, wherein authenticating a second request to access said remote modem includes:

receiving login identification for accessing said remote modem;

verifying said login identification against a list of authorized users; and notifying said user with a status response.

21. (ORIGINAL) The media of claim 20, wherein said log-in identification is a username and password.

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- 22. (ORIGINAL) The media of claim 20, wherein said status response is an approval or denial to access said remote modem.
- 23. (CANCELED)
- 24. (CANCELED)
- 25. (PREVIOUSLY PRESENTED) The communications system of claim 1, wherein the second server is in communication with said first server and modem bank via said first server, and configured to select a modem in the modem bank over which to communicate information communicated between the user computing device and remote network elements.
- 26. (CANCELED)